BEHR
STAINS•VARNISHES•PAINTS

View Section: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Super Spar Varnish Clear Satin No. 46**
Product Number: 46
Manufacturer Name: BEHR Process Corporation
Address: 3400 W. Segerstrom Avenue
Santa Ana CA 92704

U.S. Contact Info.:

Business Phone: (714) 545-7101
Technical Service Phone: (800) 854-0133 ext. 2
Business Fax: (714) 241-1002

Canadian Contact Info.:

Business Phone: (800) 661-1591
Technical Service Phone: (800) 661-1591
Business Fax: (800) 387-0019

NFPA

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HMIS

HEALTH	1
FIRE	3
REACTIVITY	0
PPE	

For Transportation Emergencies:
In the US, call CHEMTREC: (800) 424-9300
In Canada, call CANUTEC: (613) 996-6666 (call collect)

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Product No. 46

Chemical Name	CAS#	Lower Percent	Upper Percent
Petroleum distillates, hydrotreated light	64742-47-8	40	70
Solvent Naphtha (Petroleum), Medium Aliphatic	64742-88-7	15	40
Stoddard solvent	8052-41-3	30	60
Maleinized Linseed Oil	67922-98-9	15	40
Solvent Naphtha (Petroleum), light aromatic	64742-95-6	30	60
Tung oil	8001-20-5	7	13
Ethylene glycol monobutyl ether	111-76-2	1	5
Ethylene glycol monopropyl ether	2807-30-9	1	5
1-Methoxy-2-propanol acetate	108-65-6	1	5
n-Propanol	71-23-8	1	5

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SECTION 3: HAZARDS IDENTIFICATION

Product No. 46

Emergency Overview: Flammable. Irritant.

Applies to all Ingredients

Potential Health Effects:

Eye Contact:	May cause irritation.
Skin Contact:	May cause irritation.
Skin Absorption:	May be absorbed through the skin in harmful amounts.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	Harmful if swallowed. Ingestion can cause nausea, vomiting, diarrhea and gastrointestinal irritation.
Chronic Skin Contact:	Prolonged or repeated contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis (rash).
Chronic Inhalation:	Repeated or prolonged inhalation may cause toxic effects.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Central nervous system. Kidney.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Aggravation of Pre-Existing Conditions:	May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.
Guideline Type:	No Information Provided

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SECTION 4: FIRST AID MEASURES

Product No. 46

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

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SECTION 5: FIRE FIGHTING MEASURES

Product No. 46

Fire:	Flammable liquid.
Flash Point:	72°F (22.2°C)
Flash Point Method:	TOC
Upper Flammable or Explosive Limit:	7%
Lower Flammable or Explosive Limit:	1%
Extinguishing Media:	Use alcohol foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Fire Fighting Instructions:	Flammable. Cool fire-exposed containers using water spray.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Product No. 46

Personal Precautions:	Use proper personal protective equipment as listed in section 8.
Spill Cleanup Measures:	Remove all sources of ignition. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.

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SECTION 7: HANDLING AND STORAGE

Product No. 46

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.
Work Practices:	To reduce potential for static discharge, bond and ground containers when transferring material.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.
Special Handling Procedures:	Do not reuse containers without proper cleaning or reconditioning.
Important Storage and Disposal:	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container. Do not store unused product inside the home. For disposal guidance, contact your household refuse collection service, fire department, county or state government environmental control agency.

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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Product No. 46

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Ingredient Guidelines	Guideline Type	Guideline Information
Ethylene glycol monobutyl ether		
	ACGIH TLV-TWA	20 ppm
	OSHA PEL-TWA	50 ppm
n-Propanol		
	ACGIH TLV-TWA	200 ppm
	OSHA PEL-TWA	200 ppm
	ACGIH TLV-STEL	(250 ppm)
Petroleum distillates, hydrotreated light		

	ACGIH TLV-TWA	200 mg/m3 (Negligible aerosol exposures)

Stoddard solvent

ACGIH TLV-TWA	100 ppm
OSHA PEL-TWA	500 ppm

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Product No. 46

Physical State/Appearance:	Liquid
Color:	Clear
pH:	No Data
Vapor Density:	Greater than 1 (Air = 1)
Density:	7.4-7.8 Lbs./gal.
Molecular Formula:	Mixture
Molecular Weight:	Mixture

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SECTION 10: STABILITY AND REACTIVITY

Product No. 46

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Heat, flames, ignition sources, and sparks. Incompatible materials. Freezing or temperatures below 32 deg. F.
Incompatibilities with Other Materials:	Oxidizing agents. Strong acids and alkalis.
Hazardous Polymerization:	Not reported.
Hazardous Decomposition Products:	Incomplete combustion may produce carbon monoxide and other toxic gases.
Note	Refer to Section 7

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SECTION 11: TOXICOLOGICAL INFORMATION

Product No. 46

1-Methoxy-2-propanol acetate

Skin Effects:	Skin - Rabbit LD50: >5 gm/kg; Details of toxic effects not reported other than lethal dose value

Ethylene glycol monobutyl ether

Eye Effect:	Eye's - Rabbit : 100 mg/24H; Moderate. Eye's - Rabbit : 100 mg; Severe. (RTECS)
Skin Effects:	Skin - Rabbit : 500 mg; Mild. (RTECS) Skin - Rabbit LD50: 220 mg/kg; Details of toxic effects not reported other than lethal dose value
Chronic Skin Effects:	Skin - Rabbit TDLo: 4500 uL/kg/9D-I; Liver - changes in liver weight Blood - pigmented or nucleated red blood cells Blood - changes in erythrocyte (RBC) count (RTECS)

Ethylene glycol monopropyl ether

Eye Effect:	Eye's - Rabbit : 750 ug/24H; Severe. Eye's - Rabbit : 100 mg; Severe. (RTECS)
Skin Effects:	Skin - Guinea pig : 500 mg; Mild. Skin - Rabbit : 500 mg/24H; Mild. (RTECS) Skin - Rabbit LD50: 960 uL/kg; Details of toxic effects not reported other than lethal dose value

n-Propanol

Eye Effect:	Eye's - Rabbit : 20 mg/24H; Moderate. (RTECS)
Skin Effects:	Skin - Human: 100%/24H; Mild. Skin - Rabbit : 500 mg; Mild. (RTECS) Skin - Rabbit LD50: 5040 mg/kg; Details of toxic effects not reported other than lethal dose value

Solvent Naphtha (Petroleum), light aromatic

Eye Effect:	Eye's - Rabbit : 100 uL/24H; Mild. (RTECS)

Stoddard solvent

Eye Effect:	Eye's - Rabbit : 500 mg/24H; Moderate. (RTECS)
Skin Effects:	Skin - Rabbit LD: >3 gm/kg; Details of toxic effects not reported other than lethal dose value
Chronic Skin Effects:	Skin - Rabbit TDLo: 2 gm/kg/4W-I; Skin and Appendages - dermatitis, other (after systemic exposure) (RTECS)

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SECTION 12: ECOLOGICAL INFORMATION

Product No. 46

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

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SECTION 13: DISPOSAL CONSIDERATIONS

Product No. 46

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
Important Disposal Information:	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container. Do not store unused product inside the home. For disposal guidance, contact your household refuse collection service, fire department, county or state government environmental control agency.

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SECTION 14: TRANSPORT INFORMATION

Product No. 46

DOT Shipping Name:	Paint.
DOT Hazard Class:	3
DOT Identification Number:	UN1263
DOT Packing Group:	II
DOT Subpart E Labeling Requirement:	3

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SECTION 15: REGULATORY INFORMATION

Product No. 46

1-Methoxy-2-propanol acetate

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed

Ethylene glycol monobutyl ether

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed

Ethylene glycol monopropyl ether

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed

n-Propanol

TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed

Petroleum distillates, hydrotreated light

TSCA 8(b): Inventory Status:	Listed

Solvent Naphtha (Petroleum), light aromatic

TSCA 8(b): Inventory Status:	Listed
Stoddard solvent	
TSCA 8(b): Inventory Status:	Listed
Canada DSL:	Listed
Tung oil	
Canada DSL:	Listed
Proposition 65:	WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

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SECTION 16: ADDITIONAL INFORMATION

Product No. 46

MSDS Preparation Date:	5/2003
MSDS Revision Date:	4/2004
MSDS Author:	Actio Corporation

Disclaimer:

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References:

1. American Chemical Society, STN Easy Online Database
2. Brethericks Reactive Chemical Hazards Database. Version 2.
3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
6. Industrial Hygiene and Toxicology, by F.A. Patty.
7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and Biological Exposure Indices. TLV Booklet, 2001.

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